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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	3	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	4	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	5	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	6	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	7	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	8	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	9	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	10	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	11	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	12	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	13	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	14	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	15	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	16	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	17	JUL 28	CA/CAPplus patent coverage enhanced
NEWS	18	JUL 28	EPFULL enhanced with additional legal status information from the epline Register
NEWS	19	JUL 28	IFICDB, IFIPAT, and IFIUIDB reloaded with enhancements
NEWS	20	JUL 28	STN Viewer performance improved
NEWS	21	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	22	AUG 13	CA/CAPplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	23	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	24	AUG 15	CAPplus currency for Korean patents enhanced
NEWS	25	AUG 25	CA/CAPplus, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS	26	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	27	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued

NEWS 28 SEP 25 CA/CAPLUS current-awareness alert options enhanced
to accommodate supplemental CAS indexing of
exemplified prophetic substances
NEWS 29 SEP 26 WPIDS, WPINDEX, and WPIX coverage of Chinese and
and Korean patents enhanced
NEWS 30 SEP 29 IFICLS enhanced with new super search field
NEWS 31 SEP 29 EMBASE and EMBAL enhanced with new search and
display fields
NEWS 32 SEP 30 CAS patent coverage enhanced to include exemplified
prophetic substances identified in new Japanese-
language patents

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 07:50:07 ON 30 SEP 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:50:51 ON 30 SEP 2008

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STRUCTURE FILE UPDATES: 28 SEP 2008 HIGHEST RN 1054299-94-3

DICTIONARY FILE UPDATES: 28 SEP 2008 HIGHEST RN 1054299-94-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

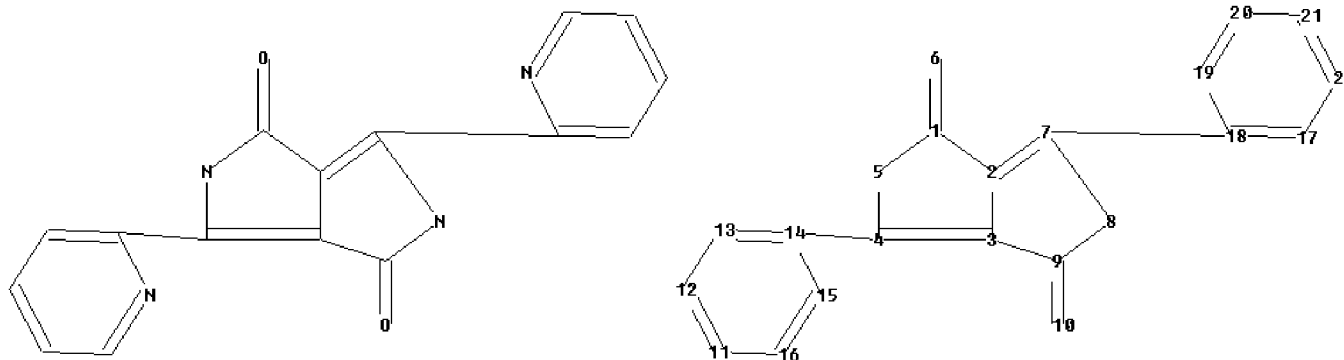
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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10551976 updated.str



chain nodes :

6 10

ring nodes :

1 2 3 4 5 7 8 9 11 12 13 14 15 16 17 18 19 20 21 22

chain bonds :

1-6 4-14 7-18 9-10

ring bonds :

1-2 1-5 2-3 2-7 3-4 3-9 4-5 7-8 8-9 11-12 11-16 12-13 13-14 14-15 15-16

17-18 17-22 18-19 19-20 20-21 21-22

exact/norm bonds :

1-2 1-5 1-6 2-3 2-7 3-4 3-9 4-5 7-8 8-9 9-10

exact bonds :

4-14 7-18

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22

isolated ring systems :

containing 1 : 11 : 17 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 10:CLASS

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

20:Atom 21:Atom

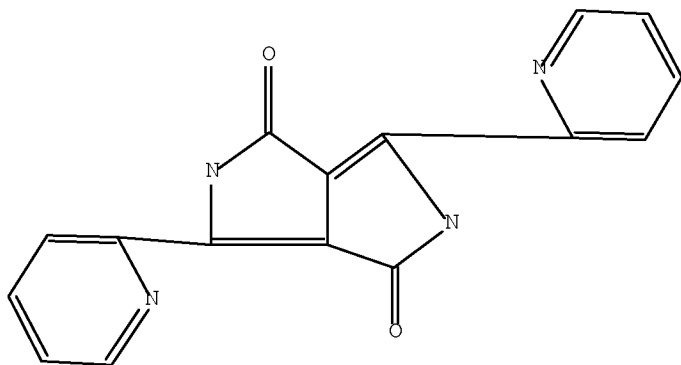
22:Atom

L1 STRUCTURE UPLOADED

=> d L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.46

0.67

FILE 'CAPLUS' ENTERED AT 07:51:09 ON 30 SEP 2008

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FILE COVERS 1907 - 30 Sep 2008 VOL 149 ISS 14

FILE LAST UPDATED: 29 Sep 2008 (20080929/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s L1 SSS full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 07:51:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2010 TO ITERATE

100.0% PROCESSED 2010 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.01

L2 13 SEA SSS FUL L1

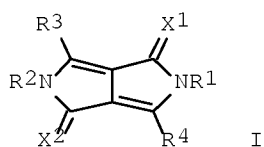
L3 9 L2

=> d ibib abs hitstr 1-
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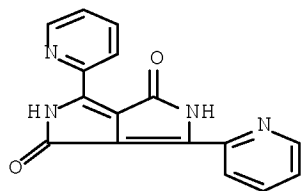
L3 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1151141 CAPLUS Full-text
DOCUMENT NUMBER: 147:460224
TITLE: Field-effect transistors
INVENTOR(S): Ikeda, Masaaki; Kuwahara, Hirokazu; Adachi, Chihaya
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2007266285	A	20071011	JP 2006-89045	20060328
PRIORITY APPLN. INFO.:			JP 2006-89045	20060328

GI

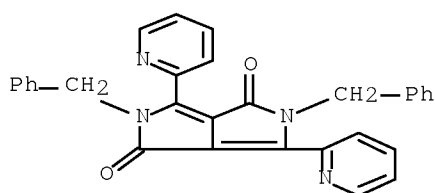


AB FETs use, as semiconductors, the compds. (I), where X1, X2 = O, S or Se; and
R1-4 = H, or aliphatic hydrocarbon or aromatic groups which may be
substituted.
IT 88949-26-2 952146-72-4
RL: TEM (Technical or engineered material use); USES (Uses)
(FETs using organic compound semiconductors)
RN 88949-26-2 CAPLUS
CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA
INDEX NAME)



RN 952146-72-4 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-2,5-bis(phenylmethyl)-3,6-di-
2-pyridinyl- (CA INDEX NAME)



L3 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:968820 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 146:92118

TITLE: Correlation between H2 gas sensitivity and structure of o-, m- and p-dipyridyldiketopyrrolopyrroles as viewed from the electron delocalization within the molecular and the crystal structure

AUTHOR(S): Hirota, Tsuyoshi; Imoda, Tomohiko; Takahashi, Hiroo; Mizuguchi, Jin

CORPORATE SOURCE: Grad. Sch. of Engineering, Yokohama National Univ., 79-5 Tokiwadai, Hodogaya-ku, Yokohama, 240-8501, Japan

SOURCE: Nippon Gazo Gakkaishi (2006), 45(4), 328-336
CODEN: NGGAFI; ISSN: 1344-4425

PUBLISHER: Nippon Gazo Gakkai

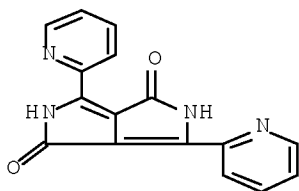
DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors have previously developed a high-sensitive H2 gas sensor using a high proton affinity of p dipyridyldiketopyrrolopyrrole (p-DPPP). The sensor exhibits a remarkable reduction of the elec. resistivity by two orders of magnitude under 0.05% H2 due to protonation at the parasite of the pyridyl ring. The present outstanding result motivated one to further study o- and m-derivs. to achieve an even better performance. However, the performance of these isomers was extremely poor. For this reason, the present study was carried out to clarify the mechanism of the poor sensitivity from the standpoint of the electron delocalization (i.e. electron conduction) within the mol. as well as the electron hopping from one mol. to another (i.e. structural problem). As for the electron delocalization in p-DPPP, the change in electron d. at the para-site (due to e.g. protonation) is well propagated throughout the mol., while those at the o- and m-sites are ineffective. This explains why p-DPPP is much superior for H2 gas sensors to o- and m-DPPPs. Another support is also given by the structure anal. of o-, m-, and p-derivs.

The N atom of the pyridyl ring (that serves as the antenna for protonation) remains unbonded (i.e. free) in p-DPPP and is capable of accepting protons. However, the N atoms are totally blocked by the formation of NH...N hydrogen bonds in o- and m-DPPPs. The above mol. and crystallog. considerations lead one to conclude that p-DPPP is, by far, advantageous to H2 sensors over o- and m-DPPPs.

IT 88949-26-2, 1,4-Diketo-3,6-bis-(3'-pyridyl)-pyrrolo-[3,4-c]-pyrrole
 RL: ARG (Analytical reagent use); PRP (Properties); ANST (Analytical study); USES (Uses)
 (correlation between hydrogen gas sensitivity and structure of o-, m- and p-dipyridyldiketopyrrolopyrroles as viewed from the electron delocalization within the mol. and the crystal structure)
 RN 88949-26-2 CAPLUS
 CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)



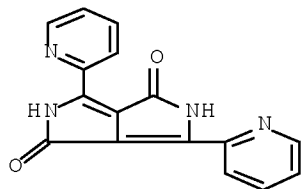
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1271611 CAPLUS Full-text
 DOCUMENT NUMBER: 144:350567
 TITLE: Microwave-assisted rapid synthesis of 1,4-diketo-pyrrolo[3,4-c]-pyrrole derivatives under solvent-free conditions
 AUTHOR(S): Shaabani, Ahmad; Dabiri, Minoo; Bazgir, Ayoob; Gharanjig, Kamaladin
 CORPORATE SOURCE: Department of Chemistry, Shahid Beheshti University, Tehran, 19396-4716, Iran
 SOURCE: Dyes and Pigments (2005), Volume Date 2006, 71(1), 68-72
 CODEN: DYPIDX; ISSN: 0143-7208
 PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 144:350567

AB The 1,4-diketo-pyrrolo[3,4-c]-pyrrole derivs. are easily synthesized by the reaction of aryl nitriles with Et α -bromoacetate by using of the activator Zn-Cu couple in good yields upon exposure to microwave irradiation under solvent-free conditions and reaction times are considerably reduced.

IT 88949-26-2F
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (microwave-assisted preparation of 1,4-diketo-pyrrolopyrrole derivs. by reaction of aryl nitriles with Et α -bromoacetate by using of zinc-copper complex activator under solvent-free conditions)
 RN 88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA
INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:599629 CAPLUS Full-text

DOCUMENT NUMBER: 143:240876

TITLE: Hydrogen gas sensor utilizing a high proton affinity
of pyrrolopyrrole derivatives

AUTHOR(S): Takahashi, H.; Mizuguchi, J.

CORPORATE SOURCE: Department of Applied Physics, Graduate School of
Engineering, Yokohama National University, Yokohama,
240-8501, Japan

SOURCE: Journal of the Electrochemical Society (2005), 152(6),
H69-H73

CODEN: JESOAN; ISSN: 0013-4651

PUBLISHER: Electrochemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A high-performance hydrogen gas sensor was developed that uses a proton
affinity of 1,4-diketo-3,6-bis-(4'-pyridyl)-pyrrolo-[3,4-c]-pyrrole (DPPP)
known as a red pigment. The N atom of the pyridyl ring of the DPPP can easily
be protonated by protons dissociated from H₂ to induce a remarkable change in
elec. conductivity by several orders of magnitude. The H₂ sensor operates in
two steps: the 1st step is the dissociation of H₂ by a sputtered Pd-layer,
followed by capturing protons by the N atom of the pyridyl ring (proton
acceptor). The device structure is: electrode/Pd/DPPP/electrode. The
appealing feature of the device is the reversible operation at room
temperature as characterized by a change in elec. resistivity by two orders of
magnitude even under 0.05% H₂. The material is quite stable and the device is
simple and compact.

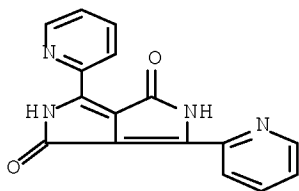
IT 88949-26-2, 1,4-Diketo-3,6-bis-(3'-pyridyl)-pyrrolo-[3,4-c]-
pyrrole

RL: ARG (Analytical reagent use); DEV (Device component use); PRP
(Properties); ANST (Analytical study); USES (Uses)

(hydrogen gas sensor based on high proton affinity of pyrrolopyrrole
derivs.)

RN 88949-26-2 CAPLUS

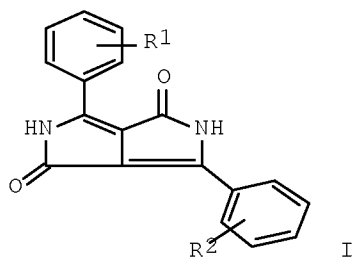
CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA
INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:395049 CAPLUS Full-text
 DOCUMENT NUMBER: 142:435373
 TITLE: Cosmetic formulations comprising diketo pyrrolopyrrole pigments
 INVENTOR(S): Wallquist, Olof
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005039514	A1	20050506	WO 2004-EP52475	20041008
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1867314	A	20061122	CN 2004-80030532	20041008
EP 1740145	A1	20070110	EP 2004-791177	20041008
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
US 20070089248	A1	20070426	US 2006-575538	20060412
PRIORITY APPLN. INFO.:			EP 2003-103852	A 20031017
			WO 2004-EP52475	W 20041008
OTHER SOURCE(S):		MARPAT 142:435373		
GI				



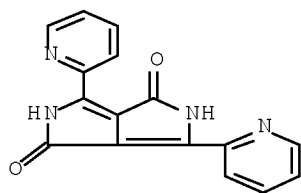
AB The present invention relates to cosmetic formulations comprising at least one diketo pyrrolopyrrole pigment of formula I (R1 = substituted Ph, naphthyl, quinolinyl, isoquinolinyl, pyridinyl, pyrimidinyl, thiophenyl, furanyl, pyrrolyl, etc.; R2 = substituted Ph, quinolinyl, isoquinolinyl, pyridinyl, pyrimidinyl, thiophenyl, furanyl, pyrrolyl, etc.), wherein the pigments have a sp. surface area (BET) of 6 to 200 m²/g. The compns., comprising 0.0001 to 50% by weight, preferably 0.0001 to 25% by weight, of least one pigment of formula I are useful for making up the skin, both of the face and of the human body, keratinous fibers or superficial body growths, such as the nails, eyelashes, eyebrows or hair, and the lips. For example, a powder foundation having excellent in-use properties was prepared comprising (i) Phase A containing talc 48.20, mica and methicone (Toshiki Sericite OS-61 D) 34.00, pigment I (R1, R2 = 4-pyridinyl) 5.00, kaolin 6.00, zinc stearate 3.00, Me paraben 0.20, and Pr paraben 0.10, and (ii) Phase B containing dicapryl maleate 3.00, and PEG-400 diisostearate 0.50%, resp.

IT 88949-26-2 777079-50-2

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic compns. comprising diketo pyrrolopyrrole pigments)

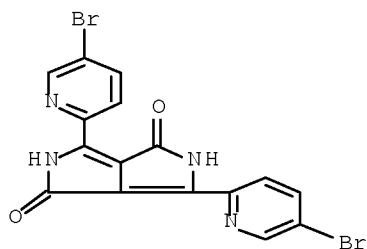
RN 88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)



RN 777079-50-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridinyl)-2,5-dihydro-
(CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:301147 CAPLUS Full-text
 DOCUMENT NUMBER: 143:219723
 TITLE: 3,6-Di-2-pyridylpyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
 AUTHOR(S): Imoda, Tomohiko; Hirota, Tsuyoshi; Takahashi, Hiroo; Mizuguchi, Jin
 CORPORATE SOURCE: Department of Applied Physics, Graduate School of Engineering, Yokohama National University, 79-5 Tokiwadai, Hodogaya-ku, Yokohama, 240-8501, Japan
 SOURCE: Acta Crystallographica, Section E: Structure Reports Online (2005), E61(3), o616-o618
 CODEN: ACSEBH; ISSN: 1600-5368
 URL: <http://journals.iucr.org/e/issues/2005/03/00/lh6350/index.html>
 PUBLISHER: Blackwell Publishing Ltd.
 DOCUMENT TYPE: Journal; (online computer file)
 LANGUAGE: English

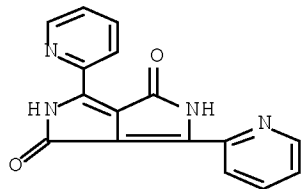
AB The title compound, C₁₆H₁₀N₄O₂, is an organic red pigment used for H₂ gas sensors. The asym. unit contains two half-mols., each mol. being centrosym. The two independent centrosym. diketopyrrolopyrrole moieties are connected by N-H...N H bonds to form a ribbon structure along [100]. The mols. are stacked in a hunter's fence' fashion (viz. when viewed from the side, mols., slipped by .apprx.70° within mol. stacks, cross each other in a fence-like structure) along the b axis,. Crystallog. data are given.

IT 88949-26-2

RL: PRP (Properties)
 (crystal structure of)

RN 88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:872828 CAPLUS Full-text

DOCUMENT NUMBER: 141:351424

TITLE: Fluorescent diketopyrrolopyrroles

INVENTOR(S): Yamamoto, Hiroshi; Dan, Norihisa

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2

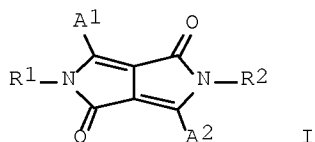
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004090046	A1	20041021	WO 2004-EP50403	20040401
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1611207	A1	20060104	EP 2004-725051	20040401
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1771298	A	20060510	CN 2004-80009420	20040401
JP 2006524281	T	20061026	JP 2006-505506	20040401
US 20070010672	A1	20070111	US 2005-551976	20051005
MX 2005PA10866	A	20060605	MX 2005-PA10866	20051010
IN 2005CN02934	A	20070608	IN 2005-CN2934	20051109
PRIORITY APPLN. INFO.:			EP 2003-100972	A 20030410
			WO 2004-EP50403	W 20040401
OTHER SOURCE(S):		MARPAT 141:351424		
GI				



AB Fluorescent diketopyrrolopyrroles I [R1, R2 = (halo-substituted) C1-25 alkyl, (C1-4 alkyl-substituted) allyl, cycloalkyl, (substituted) phenyl-cycloalkyl condensed group, alkenyl, cycloalkenyl, alkynyl, haloalkyl, haloalkenyl, haloalkynyl, ketone or aldehyde group, ester group, carbamoyl, silyl group, siloxanyl, (substituted) aryl, (substituted) heteroaryl, or CR3R4(CH2)mA3; m =

0-4; R3, R4 = H, C2-4 alkyl, or (substituted) Ph; A1, A1 = 5- or 6-membered heterocyclic ring containing 1-3 heteroatoms selected from N,O, and S] are prepared for use as guest and host chromophores in electroluminescent compns., with the absorption spectrum of the guest chromophore overlapping the fluorescent emission spectrum of the host chromophore and the photoluminescence emission peak of the host chromophore being 500-720 nm. A typical I was manufactured by reaction of 27.7 g 5-bromo-2-cyanopyridine 20 h at 100-110° with 16.2 g diisopropyl succinate in tert-amyl alc., and reaction of 2 g intermediate 21 h with 2.4 g BuI in NMP in the presence of tert.-BuOK.

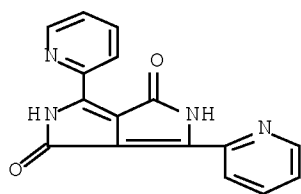
IT 88949-26-2P 128318-51-4P 777079-50-2P
777079-51-3P 777079-52-4P 777079-53-5P
777079-54-6P 777079-62-6P 777079-63-7P
777079-64-8P 777079-65-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fluorescent diketopyrrolopyrroles for electroluminescent compns. based on guest chromophores having absorption spectra overlapping host fluorescent emission spectra)

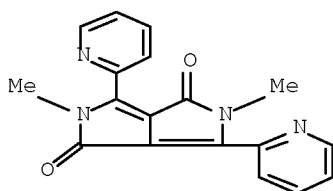
RN 88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)



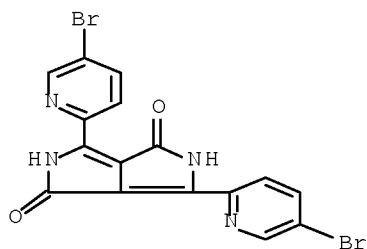
RN 128318-51-4 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-2,5-dimethyl-3,6-di-2-pyridinyl- (CA INDEX NAME)



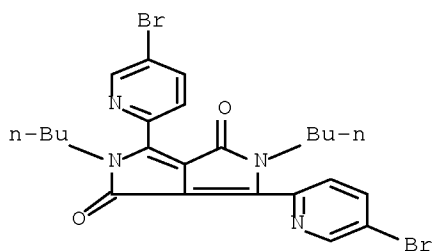
RN 777079-50-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridinyl)-2,5-dihydro- (CA INDEX NAME)



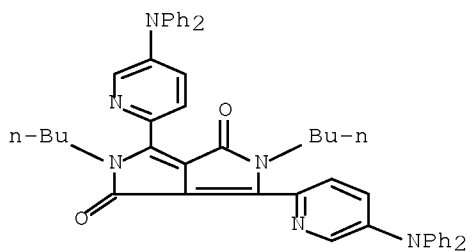
RN 777079-51-3 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridinyl)-2,5-dibutyl-2,5-dihydro- (CA INDEX NAME)



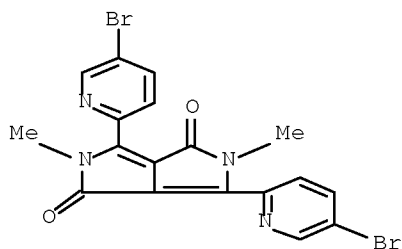
RN 777079-52-4 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dibutyl-3,6-bis[5-(diphenylamino)-2-pyridinyl]-2,5-dihydro- (CA INDEX NAME)



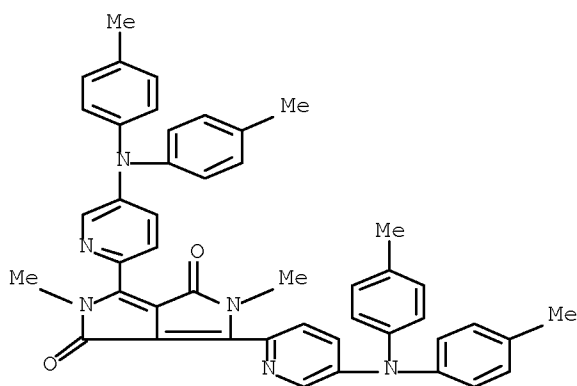
RN 777079-53-5 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridinyl)-2,5-dihydro-2,5-dimethyl- (CA INDEX NAME)



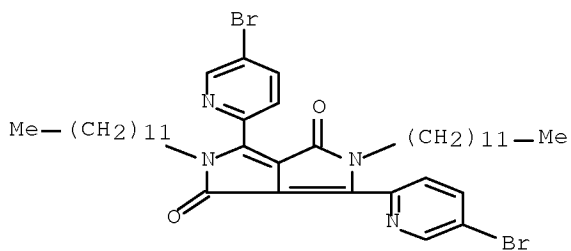
RN 777079-54-6 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis[5-[bis(4-methylphenyl)amino]-2-pyridinyl]-2,5-dihydro-2,5-dimethyl- (CA INDEX NAME)



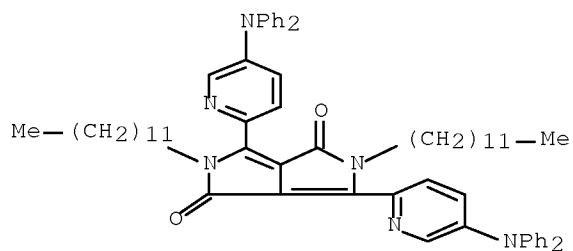
RN 777079-62-6 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridinyl)-2,5-didodecyl-2,5-dihydro- (CA INDEX NAME)

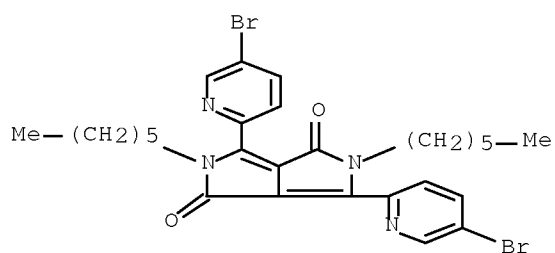


RN 777079-63-7 CAPLUS

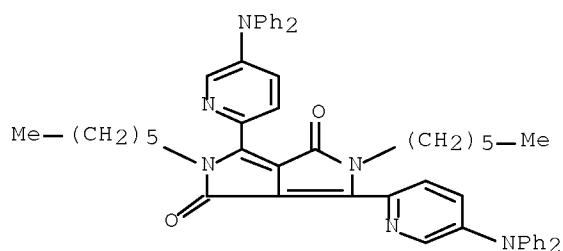
CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis[5-(diphenylamino)-2-pyridinyl]-2,5-didodecyl-2,5-dihydro- (CA INDEX NAME)



RN 777079-64-8 CAPLUS
 CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridinyl)-2,5-dihexyl-2,5-dihydro- (CA INDEX NAME)



RN 777079-65-9 CAPLUS
 CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis[5-(diphenylamino)-2-pyridinyl]-2,5-dihexyl-2,5-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1990:468456 CAPLUS Full-text
 DOCUMENT NUMBER: 113:68456
 ORIGINAL REFERENCE NO.: 113:11401a,11404a
 TITLE: Optical memory devices containing color changeable dyes, and dyes therefor
 INVENTOR(S): Langhals, Heinz; Potrawa, Thomas
 PATENT ASSIGNEE(S): Riedel-de Haen A.-G., Germany
 SOURCE: PCT Int. Appl., 96 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9001480	A1	19900222	WO 1989-EP866	19890724
W: JP, US				
RW: CH, DE, FR, GB, NL				
DE 3901988	A1	19900201	DE 1989-3901988	19890124
DE 3908312	A1	19900927	DE 1989-3908312	19890314
EP 426717	A1	19910515	EP 1989-908407	19890724
EP 426717	B1	19960424		
R: CH, DE, FR, GB, LI, NL				
JP 04500935	T	19920220	JP 1989-507776	19890724
US 5354869	A	19941011	US 1991-640367	19910129
PRIORITY APPLN. INFO.:				
			DE 1988-3825943	A 19880729
			DE 1989-3901988	A 19890124
			DE 1989-3908312	A 19890314
			DE 1988-3808312	A 19890314
			WO 1989-EP866	W 19890724

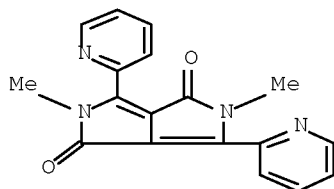
OTHER SOURCE(S): MARPAT 113:68456

AB The dyes with ≥ 2 different color forms, one of which can be changed to the other by supplying energy, are described which are used as storage media in optical memories. The dyes are solid state fluorescent dyes. Thus, 3,6-bis(2'-methoxyphenyl)-2,5-dihydropyrrolo(3,4-c)pyrrole-1,4-dione was prepared

IT 128318-51-4P 128318-52-5P
RL: PREP (Preparation)
(preparation of, as color changeable dye in optical memory device)

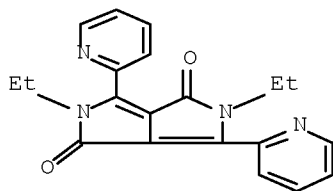
RN 128318-51-4 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-2,5-dimethyl-3,6-di-2-pyridinyl- (CA INDEX NAME)



RN 128318-52-5 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-diethyl-2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)



L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1984:87260 CAPLUS Full-text
 DOCUMENT NUMBER: 100:87260
 ORIGINAL REFERENCE NO.: 100:13234h,13235a
 TITLE: 1,4-Dioxopyrrolo[3,4-c]pyrroles
 INVENTOR(S): Rochat, Alain Claude; Cassar, Luigi; Iqbal, Abul
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.
 SOURCE: Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

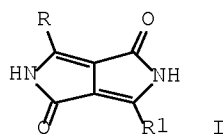
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 94911	A2	19831123	EP 1983-810202	19830511
EP 94911	A3	19841128		
EP 94911	B1	19860910		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AU 8314447	A	19831124	AU 1983-14447	19830511
AU 568298	B2	19871224		
US 4579949	A	19860401	US 1983-493533	19830511
AT 22104	T	19860915	AT 1983-810202	19830511
CS 236794	B2	19850515	CS 1983-3374	19830513
CA 1236105	A1	19880503	CA 1983-428112	19830513
DK 8302176	A	19831118	DK 1983-2176	19830516
DK 153561	B	19880725		
DK 153561	C	19881212		
BR 8302570	A	19840117	BR 1983-2570	19830516
ZA 8303468	A	19840229	ZA 1983-3468	19830516
DD 209832	A5	19840523	DD 1983-250943	19830516
DD 209832	C4	19851218		
HU 32103	A2	19840628	HU 1983-1706	19830516
HU 190489	B	19860929		
SU 1225489	A3	19860415	SU 1983-3595551	19830516
PL 140881	B1	19870630	PL 1983-242009	19830516
JP 58210084	A	19831207	JP 1983-86487	19830517
JP 04025273	B	19920430		

PRIORITY APPLN. INFO.: CH 1982-3054 A 19820517
 CH 1982-5468 A 19820915
 EP 1983-810202 A 19830511

OTHER SOURCE(S): MARPAT 100:87260
 GI

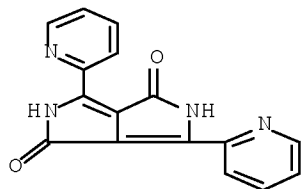


AB The title compds. (I; R, R1 = isocyclic or heterocyclic radicals), useful as orange to blue pigments for polymers, are prepared by reaction of 1 mol succinic acid diester with 2 mol RCN or with 1 mol RCN and 1 mol R1CN, at high temperature in an organic solvent in the presence of a strong base, followed by hydrolysis. Thus, dropwise addition of a solution of 7.31 g MeO2CCH2CH2CO2Me (II) [106-65-0] in 5.0 mL tert-amyl alc. to an anhydrous, N-blanketed mixture of 48.2 mL tert-amyl alc., 17.3 g KOcMe3, and 72.2 g PhCN [100-47-0] at 98-99° with distillation of liberated MeOH, heating at 99° for 2 h, cooling to 65°, dilution with 100 mL MeOH, neutralization with 10.8 mL HOAc, and heating at reflux gave 9.04 g (62.8% yield on II) I (R = R1 = Ph) [54660-00-3], a red pigment for PVC [9002-86-2]. Thirty-five other I were prepared

IT 88949-26-2P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (pigment, manufacture of)

RN 88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)



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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

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